

FORM PTO-1449
(REV. 7-80)ATTY. DOCKET NO.
DUK96-03pA3SERIAL NO.
08/796,164INFORMATION DISCLOSURE CITATION
IN AN APPLICATIONAPPLICANT
Jonathan S. Stamler et al.FILING DATE
February 6, 1997GROUP
1811

(See several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
M	AA	5,385,937	01-31-95	Stamler et al.	514	557	02-21-92
	AB	5,380,758	01-10-95	Stamler et al.	514	562	09-14-92
	AC	5,405,919	04-11-95	Keefer et al.	525	377	08-24-92
	AD	5,574,068	11-12-96	Stamler et al.	514	562	11-14-94
	AE	4,900,719	02-13-90	Means et al.	514	18	08-05-88
	AF	5,593,876	01-14-97	Stamler et al.	435	188	08-09-94
	AG	5,480,866	01-02-96	Bonaventura et al.	514	6	01-18-94
M	AH	5,427,797	06-27-95	Frostell et al.	424	434	04-06-93

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
M	AL	WO 96/16645	06-JUN-96	PCT			
	AM	WO 96/15797	30-MAY-96	PCT			
	AN	WO 96/17604	13-JUN-96	PCT			
	AO	WO 93/09806	27-MAY-93	PCT			
	AP	WO 93/12068	24-JUN-93	PCT			
A	AQ	WO 94/22499	13-OCT-94	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Stamler, Jonathan S. et al., "S-Nitrosylation of Proteins with Nitric Oxide: Synthesis and Characterization of Biologically Active Compounds," <i>Proc. Natl. Acad. Sci. USA</i> , 89:444-448 (1992).
	AS	Langford, E.J. et al., "Inhibition of Platelet Activity by S-Nitrosoglutathione During Coronary Angioplasty," <i>The Lancet</i> , 344:1458-1460 (1994).
	AT	Simon, Daniel I. et al., "Polynitrosylated Proteins: Characterization, Bioactivity, and Functional Consequences," <i>Proc. Natl. Acad. Sci. USA</i> , 93:4736-4741 (1996).

EXAMINER



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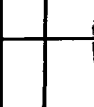

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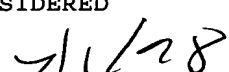
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	AL2	WO 94/22482	13-OCT-94	PCT			
	AM2	WO 94/22306	13-OCT-94	PCT			
	AN2	WO 96/30006	03-OCT-96	PCT			
	AO2	WO 95/07691	23-MAR-95	PCT			
	AP2	WO 96/03139	08-FEB-96	PCT			

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	AU Doyle, Michael P. et al., "Structural Effects in Alkyl Nitrite Oxidation of Human Hemoglobin," <i>Journal of Biological Chemistry</i> , 259(1):80-87 (1984).
	AV Shah, N.S. et al., "Efficiency of Inhaled Nitric Oxide in a Porcine Model of Adult Respiratory Distress Syndrome," <i>Archives of Surgery</i> , 129(2):158-164 (1994).
	AW Kukovetz, W.R. et al., "Cellular Mechanism of Action of Therapeutic Nitric Oxide Donors," <i>European Heart Journal</i> , 12 (Suppl. E):16-24 (1991).
	AX Greenburg, A.G and Kim, H.W., "Nitrosyl Hemoglobin Formation In Vivo After Intravenous Administration of a Hemoglobin-Based Oxygen Carrier in Endotoxemic Rats," <i>Artif. Cells, Blood Substitutes, Immobilization Biotechnol.</i> , 23(3):271-276 (1995).
	AY Clancy, Robert M. et al., "Use of Thionitrobenzoic Acid to Characterize the Stability of Nitric Oxide in Aqueous Solutions and in Porcine Aortic Endothelial Cell Suspensions," <i>Anal. Biochem.</i> , 191(1):138-143 (1990).

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	AZ	Charache, S. et al., "Evaluation of Extracorporeal Alkylation of Red Cells as a Potential Treatment for Sick Cell Anemia," <i>Blood</i> , 47(3):481-488 (1976).	
	AR2	Wheeler, G.P. et al., "Anti-Sickling Activity of Nitrosoureas," <i>Biochem. Biophys. Res. Comm.</i> 54(3):1024-1029 (1973).	
	AS2	Clancy, Robert M. al., "Nitric Oxide Reacts with Intracellular Glutathione and Activates the Hexose Monophosphate Shunt in Human Neutrophils: Evidence for S-Nitrosoglutathione as a Bioactive Intermediary," <i>Proc. Natl. Acad. Sci. USA</i> , 91:3680-3684 (1994).	
	AT2	Stamler, Jonathan S., "Redox Signaling: Nitrosylation and Related Target Interactions of Nitric Oxide," <i>Cell</i> , 78:931-936 (1994).	
	AU2	Arnelle, Derrick R. and Stamler, Jonathan S., "NO ⁺ , NO [•] , and NO ⁻ Donation by S-Nitrosothiols: Implications for Regulation of Physiological Functions by S-Nitrosylation and Acceleration of Disulfide Formation," <i>Archives of Biochemistry and Biophysics</i> , 318(2):279-285 (1995).	
	AV2	Kondo, T. et al., "Thiol Transport from Human Red Blood Cells," <i>Methods in Enzymology</i> , 252:72-82 (1995).	
	AW2	Jia, Li et al., "S-Nitrosohaemoglobin: A Dynamic Activity of Blood Involved in Vascular Control," <i>Nature</i> , 380:221-226 (1996).	
	AX2	Ignarro, Louis J. et al., "Mechanism of Vascular Smooth Muscle Relaxation by Organic Nitrates, Nitrites, Nitroprusside and Nitric Oxide: Evidence for the Involvement of S-Nitrosothiols as Active Intermediates," <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 218(3):739-749 (1981).	
	AY2	Ribeiro, José M.C. et al., "Reversible Binding of Nitric Oxide by a Salivary Heme Protein from a Bloodsucking Insect," <i>Science</i> , 260: 539-541 (1993).	
	AZ2	Simon, Daniel I. et al., "Effect of Nitric Oxide Synthase Inhibition on Bleeding Time in Humans," <i>Journal of Cardiovascular Pharmacology</i> , 26:339-342 (1995).	
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	AR3	Radomski, Marek W. et al., "S-Nitroso-Glutathione Inhibits Platelet Activation In Vitro and In Vivo," <i>Br. J. Pharmacol.</i> , 107:745-749 (1992).					
	AS3	Scharfstein, Jonathan S. et al., "In Vivo Transfer of Nitric Oxide Between a Plasma Protein-Bound Reservoir and Low Molecular Weight Thiols," <i>J. Clin. Invest.</i> , 94:1432-1439 (1994).					
	AT3	Kosaka, H. et al., "ESR Spectral Transition by Arteriovenous Cycle in Nitric Oxide Hemoglobin of Cytokine-Treated Rats," <i>Am. J. Physiol.</i> , 266(5):1400-1405 (1994).					
	AU3	Kruszyna, R. et al., "Generation of Valency Hybrids and Nitrosylated Species of Hemoglobin in Mice by Nitric Oxide Vasodilators," <i>Toxicol. Appl. Pharmacol.</i> , 94(3):458-465 (1988).					
	AV3	Freedman, Jane E. et al., "Glutathione Peroxidase Potentiates the Inhibition of Platelet Function by S-Nitrosothiols," <i>J. Clin. Invest.</i> , 96:394-400 (1995).					
	AW3	Feelisch, M. and Stamler, J.S., "Donors of Nitrogen Oxides," <i>Methods In Nitric Oxide Research</i> , John Wiley & Sons Ltd. (1996).					
	AX3	Stamler, J.S. and Feelisch, M., "Preparation and Detection of S-Nitrosothiols," <i>Methods In Nitric Oxide Research</i> , John Wiley & Sons Ltd. (1996).					
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ML	AQ2	WO 97/37644	16-OCT-97	PCT				
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ML	AY3	Sharma, Vijay S. and Ranney, Helen M., "The Dissociation of NO from Nitrosylhemoglobin," <i>The Journal of Biological Chemistry</i> , 253(18):6467-6472 (1978).						
BK	AZ3	Moore, Edwin G. and Gibson, Quentin H., "Cooperativity in the Dissociation of Nitric Oxide from Hemoglobin," <i>The Journal of Biological Chemistry</i> , 251(9):2788-2794 (1976).						
ML	AR4	Khartitonov, V.G., et al., "Interactions of Nitric Oxide with Heme Proteins Using UV-VIS Spectroscopy," <i>Methods in Nitric Oxide Research</i> , pages 39-45, Edited by Martin Feelisch and Jonathan S. Stamler, John Wiley & Sons Ltd. (1996).						
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M	AS4	Taketa, Fumito, et al., "Chain Nonequivalence in Binding of Nitric Oxide to Hemoglobin," <i>The Journal of Biological Chemistry</i> , 253(15):5448-5451 (1978).
M	AT4	Henry, Y. and Cassoly, R., "Chain Non-Equivalence in Nitric Oxide Binding to Hemoglobin," <i>Biochemical and Biophysical Research Communications</i> , 51(3):659-665 (1973).
M	AU4	Wennmalm, Å., et al., "Dependence of the Metabolism of Nitric Oxide (NO) in Healthy Human Whole Blood on the Oxygenation of Its Red Cell Haemoglobin," <i>Br. Journal Pharmacol.</i> , 106:507-508 (1992).
M	AV4	Hille, Russ, et al., "Spectral Transitions of Nitrosyl Hemes During Ligand Binding to Hemoglobin," <i>The Journal of Biological Chemistry</i> , 254(23):12110-12120 (1979).
M	AW4	Cassoly, R. and Gibson, Q.H., "Conformation, Co-Operativity and Ligand Binding in Human Hemoglobin," <i>J. Mol. Biol.</i> , 91:301-313 (1975).
M	AX4	Cantilena, Louis R., Jr., et al., "Nitric Oxide Hemoglobin in Patients Receiving Nitroglycerin as Detected by Electron Paramagnetic Resonance Spectroscopy," <i>J. Lab. Clin. Med.</i> , 120(6):902-907 (1992).
M	AY4	Salhany, J.M, et al., "Correlations Between Quaternary Structure and Ligand Dissociation Kinetics for Fully Liganded Hemoglobin," <i>Biochemistry</i> , 14(10):2180-2190 (1975).
M	AZ4	Kruszyna, Harriet, et al., "Red Blood Cells Generate Nitric Oxide From Directly Acting, Nitrogenous Vasodilators," <i>Toxicology and Applied Pharmacology</i> , 91:429-438 (1987).

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	AR5	Lancaster, Jack R., Jr., "Simulation of the Diffusion and Reaction of Endogenously Produced Nitric Oxide," <i>Proc. Natl. Acad. Sci. USA</i> , 91:8137-8141 (1994).
	AS5	Butler, Anthony R. et al., "NO, Nitrosonium Ions, Nitroxide Ions, Nitrosothiols and Iron-Nitrosyls in Biology: A Chemist's Perspective," <i>TIPS</i> , 16:18-22 (1995).

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MA	AT5	Wade, Ruth S. and Castro, C.E., "Redox Reactivity of Iron(III) Porphyrins and Heme Proteins with Nitric Oxide: Nitrosyl Transfer to Carbon, Oxygen, Nitrogen and Sulfur," <i>Chem. Res. Toxicol.</i> , 3(4):289-291 (1990).
	AU5	Addison, Anthony W. and Stephanos, Joseph J., "Nitrosyliron(III) Hemoglobin: Autoreduction and Spectroscopy," <i>Biochemistry</i> 25(14):4104-4113 (1986).
	AV5	Perutz, Max F., et al., "Influence of Globin Structures on the State of the Heme: Ferrous Low Spin Derivatives," <i>Biochemistry</i> , 15(2):378-387 (1976).
	AW5	John, Maliyakal E. and Waterman, Michael R., "Structural Basis for the Conformational States of Nitrosyl Hemoglobins M Saskatoon and M Milwaukee," <i>The Journal of Biological Chemistry</i> , 255(10):4501-4506 (1980).
11	AX5	Trittelvitz, Eberhard and Gersonde, Klaus, "Electron-Spin Resonance of Nitrosyl Haemoglobins: Normal α and β Chains and Mutants Hb M Iwate and Hb Zürich," <i>Eur. J. Biochem.</i> , 51:33-42 (1975).

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